Features

- IEEE 802.3 Ethernet compatible
- 10 GbE
- PoE+
- RoHS compliant* and halogen free**

Electrical Specifications @ 25 °C

Inductance

100 kHz, 0.1 V

Insertion Loss (TD-MX)

1-500 MHz: -3.0 dB max.

Return Loss (TD-MX)

1-40 MHz: -16 dB min.

40 ≤ f ≤ 500 MHz

Cross Talk

1-500 MHz: -30 dB min.

DCMR (TD-MX)

1-250 MHz: -22 dB min.

250-550 MHz: -18 dB min.

Hi-Pot

1500 V ac, 60 s

PoE+ Current

600 mA

Operating Temperature

0 °C to +85 °C

Storage Temperature

-25 °C to +85 °C

Packaging Specifications

Tape & Reel

800 pcs./reel

Pin Layout

Recommended Layout

How To Order

SM43P01 E L

Model

Packaging

E = Tape and Reel (800 pcs. per reel)

Termination

L = Tin (RoHS Compliant)

Additional Information

Click these links for more information:

Product Technical Library Inventory Samples

WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

** Bourns considers a product to be “halogen free” if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov
SM43P01EL - 10 GbE Chip LAN Transformer Module

Solder Profile

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>Preheating</th>
<th>Soldering</th>
<th>Natural Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>217</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60-180 Sec.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>480 Sec. Max.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tp (260 °C / 10 Sec. Max.)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Packaging Specifications

<table>
<thead>
<tr>
<th>Cover Tape</th>
<th>Embossed Carrier</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Dimensions:</th>
<th>MM</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.75 ± 0.1</td>
<td>0.069 ± 0.004</td>
<td></td>
</tr>
<tr>
<td>4.00 ± 0.1</td>
<td>0.157 ± 0.004</td>
<td></td>
</tr>
<tr>
<td>14.2 ± 0.1</td>
<td>0.559 ± 0.004</td>
<td></td>
</tr>
<tr>
<td>32.8 ± 0.3</td>
<td>1.299 ± 0.012</td>
<td></td>
</tr>
</tbody>
</table>

QTY: 800 PCS. PER REEL

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